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ENC. 14

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW - DATE: <u>6/9/99</u>	DETERMINATION [CIRCLE NUMBER(S)]
AUTHORITY: <input type="checkbox"/> AOC <input type="checkbox"/> ABC <input checked="" type="checkbox"/> ADD	1. CLASSIFICATION RETAINED
NAME: <u>BILL LAWRENCE</u>	2. CLASSIFICATION CHANGED TO:
2ND REVIEW - DATE: <u>1/12/99</u>	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <u>ADD</u>	4. COORDINATE WITH:
NAME: <u>Hal Fleming</u>	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY): <u>4 PAGES</u>

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REF. SYM: 3416/131

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PP RUTQBN RUWMFNA RUEPXG RUWPUJ RUWPQL RUWPQS

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ZNY SSSSS

P 032021Z

FM W F WHITE USAEC ALBUQUERQUE NMEX

TO RUTQBN/16AF TORREJON AB SPAIN ATTN ADVON PASS TO R C MAYDEW
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RUWPUJ/LCOL CARL JOHNSON JNACC FC/DASA SANDIAB/SERIES F/

RUWPQL/FRANK DUNN LASL LOS ALAMOS NMEX/SERIES G/

RUWPQS/W BARTON S MOORE SANDIA CORP ALBUQ NMEX/SERIES H/

AEC

BT

SECRET RESDAT RE: ANALZSIS OF ACFT COLLISION NEAR VERA,
SPAIN BY SANDIA CORP TEAMS (MESSAGE 5). REF: SRD MSG, 1 FEB 0900
ZEBRA CITE C-00108, FORWR BARTON, SANDIA CORP, 9320.

TO: R C MAYDEW, SANDIA CORP. FROO W R BARTON AND W N. CAUDLE. THIS
MESSAGE IN FIVE PARTS.

PART I: OUR ASSUMPTIONS, BASED ON YOUR MSG OF 1 FEB.

(3) SLAG PILES ARE MORE THAN 20 YEARS OLD.

(4) ANY SAND NOT ON THE BEACH IS DRY. (5) CALICHE IS LIGHTLY
CEMENTED, LIKE MESA SOIL IN ALBUQUERQUE. (6) LOAM MEANS AN

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PAGE THREE RUWPQA 195C S E C R E T RESDAT

THAN THESE VALUES. IF LAND HAS BEEN PLOWED AND IRRIGATED FORMX MANY YEARS, YOU SHOULD HAVE HARD LAYER AT 2 TO 3 FEET. THIS LAYER COULD FORM A FLAT BOTTOM FOR A CRATER IN LOAM. THE SMALL NOSE-ON CRATER IN LOAM COULD BE DESTROYED OR FILLED IN BY CARELESS DEFOLIATION OF CROPS.

PART III: SOIL PENETRATION UNLESS UNIT HIT MUCK, IT WILL NOT BE DEEPER THAN 20 FEET FOR NOSE-ON IMPACT OR 5 FEET FOR LENGTHWISE. IMPACT FOR THE AFORE-MENTIONED FOUR SOILS. IF UNIT HIT BEACH SAND AREA, IT WILL NOT BE DEEPER THAN 13 FEET FOR NOSE-ON OR 5 FEET IF LENGTHWISE,

BUT CRATER PROBABLY WASTED IN. IF UNIT HIT ON OCEAN SIDE OF BEACH, UNIT COULD HAVE PENETRATED 30 TO 40 FEET. IF UNIT BROKE AT IMPACT, PENETRATIONS OF PIECES WILL BE LESS THAN THOSE DEPTHS JUST GIVEN AND PROBABLY WILL BE SUBSTANTIALLY LESS. CANNOT MAKE CLOSER ESTIMATES WITHOUT BETTER PHYSICAL DESCRIPTION OF SOILS. IF BETTER

PENETRATION ESTIMATE REQUIRED, YOU SHOULD OBTAIN SERVICES OF LOCAL SOIL ENGINEER AND HAVE HIM FURNISH DATA AS TO BLOW COUNT (STANDARD PENETRATION TEST), COMPRESSIVE STRENGTH, AND UNIFIED CLASSIFICATION.

PART IV: SOME RANDOM QUESTIONS AND THOUGHTS FROM MC NEILL. COULD ~~UNIT~~ ~~XXXXXX~~ UNIT HAVE GONE DOWN MINESHAFT QUERY ARE THERE CAVES, SINKHOLES, OR UNDERGROUND CAVERNS IN THE AREA QUERY HAS DETAILED STEREO AIR PHOTO COVERAGE BEEN MADE QUERY

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